SAF-B00-004 Industrial Hygiene Sampling – Airborne FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 051-2813-01 SAF-B00-004

Rad only X Chem only Rad & Chem

X Complete

Partial

300 Area 313 Bldg







Cover Page

Report Identification Number: 05I-2813-01

Subcontract Number: 0000X-BO-G0058-B-Mod#3

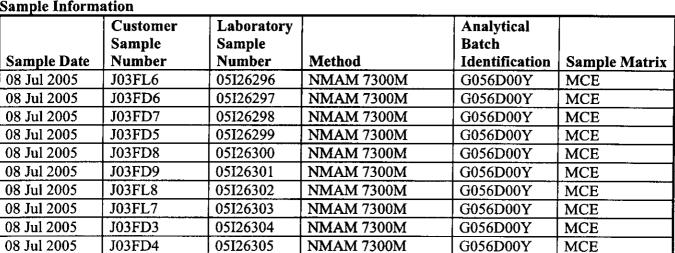
Name of Industrial Hygienist: Henry W. Ruby / Denise A. Pitts

Laboratory Identification Number: DCHM

> SAF#: B00-004; B00-005

Payroll#: 73399





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Name: Michelle Paradise

Title: Chemist July 14, 2005 Date:





Case Narrative Page

Report Identification Number: 05I-2813-01

Subcontract Number: 0000X-BO-G0058-B-Mod#3
Name of Industrial Hygienist: Henry W. Ruby / Denise A. Pitts

Laboratory Identification Number: DCHM

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General Set Information: There are 10 samples in set 05I-2813-01 and 15 samples in set 05I-2814-01 for a total of 25 samples. The samples were analyzed for beryllium on MCE filter. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 10 mL of 1:1 (v/v) nitric acid. Samples were digested in a hot block set at 110°C (with a thermometer reading of 97.2°C) for 40 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

<u>Sample Preparation:</u> All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of ± 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.02 ug/sample.

Method Blank Analysis: No beryllium was found in the media blank sample above the Contract Required Detection Limit (CRDL).

Dilution(s): None of the samples were diluted.

Laboratory Control Sample and Duplicate Analysis: Two Laboratory Control Samples (LCSs) and two Laboratory Control Sample Duplicates (LCSDs) were prepared and analyzed with the sample batch. The LCSs results are within the control limit of ± 20%. The Relative Percent Differences (RPDs) between the LCSs and the LCSDs are within the control limit of 20%.

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Case Narrative Page

Replicate Analysis: Three samples in this batch were replicated. The RPDs between the samples and the replicates are within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes:

U - Analyte not detected above the Method Detection Limit (MDL) of 0.004 ug/sample. J - Analyte result is reported above the Method Detection Limit (MDL) of 0.004 ug/sample, but below the Contract Required Detection Limit (CRDL) of 0.02 ug/sample.

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Nonconformance/Corrective Action Report (NC/CAR): N/A

<u>Sample Calculation:</u> The final results are calculated by the following equation: Final result for aqueous samples (μ g/sample) = (A) x (B) x (C)

Where

A = Analyte concentration from instrument determination (μ g/L)

B = Concentration factor from sample preparation

= Final Volume of Digestate (L)

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

Miscellaneous Comments: None.



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Report Page

Report Identification Number: 05I-2813-01

Subcontract Number: 0000X-BO-G0058-B-Mod#3

Name of Industrial Hygienist: Henry W. Ruby / Denise A. Pitts

Laboratory Identification Number: DCHM

SAF#: B00-004; B00-005

Payroll#: 73399

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sample		Berylliun µg/m³	n	Air Volume L
		14 Jul 2005	<0.02	U	< 0.002	U	1860.
J03FL6	05126296						
J03FD6	05126297	14 Jul 2005	< 0.02	U	< 0.002	U	1669.
J03FD7	05126298	14 Jul 2005	< 0.02	U	< 0.002	U	2274.
J03FD5	05I26299	14 Jul 2005	< 0.02	U	< 0.002	U	1953.
J03FD8	05I26300	14 Jul 2005	< 0.02	U	< 0.003	U	1493.
J03FD9	05126301	14 Jul 2005	< 0.02	U	< 0.003	U	1477.
J03FL8	05I26302	14 Jul 2005	< 0.02	U	< 0.02	U	260.
J03FL7	05I26303	14 Jul 2005	< 0.02	U	< 0.005	U	744.
J03FD3	05I26304	14 Jul 2005	< 0.02	U	**		**
J03FD4	05I26305	14 Jul 2005	< 0.02	U	**		**
	Limit of I	Detection (LOD)	0.0	04	*		
R	equired Detecti	on Limit (RDL)	0.	02			

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

Report Identification Number: 05I-2813-01

Subcontract Number: 0000X-BO-G0058-B-Mod#3
Name of Industrial Hygienist: Henry W. Ruby / Denise A. Pitts

Laboratory Identification Number: DCHM

SAF: B00-004; B00-005

Payroll#: 73399

Batch ID: G056D00Y

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-233740-2	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
QC-233740-2	LCS	Beryllium	μg/sample	9.92	NA	10.0	99.2	NA
QD-233740-2	LCSD	Beryllium	μg/sample	10.4	9.92	10.0	104.	4.47
BL-233740-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
QC-233740-1	LCS	Beryllium	μg/sample	10.1	NA	10.0	101.	NA
QD-233740-1	LCSD	Beryllium	μg/sample	10.1	10.1	10.0	101.	0.584

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MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

M 2.813.01

Bechtel II	lanford, Inc.		ERC/II	NDUSTE	UAL HYG	ENE CH	AIN OF	CUST	ODV/S		SILV			
Collector: Daniel	w.if	Company Co Henry W. Ri	ontact uby and Denis			Telephone 373-56	No.	2031	Project Coor Joan H. Kes	rdinator	MALY		maround	
Payroll#: 733	99	Sampling Lo 300 AREA -	Cation 317 Bu	الطامع	SPECIAL INST	As must be pr		_	SAF No. B00-004; B0	00-005		-		
Type of Sample: Air Sample for Bery	llium			J	1	XX			Method of S FEDERAL	hipment EXPRESS				··· · · · ·
Shipped To: DATACHEM - Salt	Lake City, Utah				ANALYSIS I NIOSH 7300 -	Beryllium (Be	reciric):)		Bill of Ladi	ng/Air Bill)	ło.			
POSSIBLE SAMPLE I	HAZARDYREMARKS		· · · · ·	·				,	8	5283	372008	3		
BERYLLIUM Special Handling an		MATI A - AIS WI - WI	1		on (ie., cooling									
N/A		х - от			ired, etc.)	No.	No	Na				<u> </u>		
SAMPLE NO.	MATRIX	SAMPLE ANALY	VOLUME			Askinar Alakemi	Lead Airburne	Be Airburn	:	\				
JO3FL6	A	7/8/05	3189	118	Comments 560	$\uparrow \setminus$		х					1.07	2lng
Jo3foL	A	7/8/05	1944	1660	inute			х					(727	91
J°3f07	A	7/8/05	227	7-J9V	meter			Х				حوب		98
203£05 ·	A	7/8/05	195	3 Po	imeter			х			७ २२ ०५			99
J03508 ·	A	7/4/05	1493	Per	ineta	\	3GW	х						300
J03f09	Λ	7/8/05	1477	1 41	ua	16 JAT 05	\	x						اه
J03f18.	Α	7/8/05	260	Pes	اعدا		\prod	х						D.
J03847	A	7/8/05	744	Pe	sonel			х						B
J03f03 ·	A	7/4/05	N/A		-k			х						18
J03 F04	A	7/1/05	"/A	Bl.	45)<			х					-	

BHI-SH-202 (07/28/2004)

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DataChem Laboratories, Inc. 960 West Levoy Drive Salt Lake City, Utah 84123-2547

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ERC/INDUSTRIAL HYGIENE CHAIN OF SIGN/PRINT NAME MILTINE Danul Wolf 7/8/05 1445	ERCINDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST SIGN / PRINT NAMES / USE MILITARY TIME OTHER STATE STAT
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BHLSH-202 (07/28/2004)	,

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Kessner, Joan H

From:

Griffiths, Kevin W. [griffiths@datachem.com]

Sent:

Thursday, September 08, 2005 7:59 AM

To:

Kessner, Joan H

Cc:

henry.ruby@wch-rcc.com; denise.pitts@wch-rcc.com

Subject:

RE: Corrections on Volumes (05I-2813-01/SDR BS05-155)

Attachments: 05I-2813-01.TXT; 05I-2813-01r.pdf

Kevin Griffiths Project Manager (801) 904-4302 Cell (801) 835-9597 griffiths@datachem.com

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From: Kessner, Joan H [mailto:joan.kessner@wch-rcc.com]

Sent: Thursday, September 08, 2005 8:17 AM

To: Griffiths, Kevin W.

Subject: FW: Corrections on Volumes (05I-2813-01/SDR BS05-155)

Importance: High

Kevin--

I know this is about the last thing you want to see, but I trying to clean up the last of the outstanding corrections - so here is the first one.

Also I did check out the area corrections and you were completely right, so they are gone. The really sad thing is that there were only 2.....

There are more to come, Joan

From: Whatley, Zona G (Gwen)

Sent: Wednesday, July 13, 2005 7:07 AM

To: Kessner, Joan H

Subject: Corrections on Volumes

Importance: High

Joan - Please disregard the 7/8 volume corrections sent previously this morning; the corrections for the sampling of 7/8 are

Sampling Date - 7/8/05

IH Air Samples for Beryllium, DataChem, Utah
Sample Set of COC - J03FL6 - J03FD4
Sample J03FL6 was recorded as having a volume of 2159 liters, the correct volume is 1860
Sample J03FD6 was recorded as having a volume of 1941 liters, the correct volume is 1669
Sample J03FD5 was recorded as having a volume of 2273 liters, the correct volume is 1953

Thank you, Gwen 531-0676